

Type IF-69

Resembles: -

Probes: not available

Frequency occurrence (200 samples; 175 WTPs):

- observed with a FI ≥ 1 in 1 sample
- observed with a FI ≥ 3 in 1 sample



Characteristics

- bent filaments free in the liquid phase between the flocs;
- not motile;
- filament length $> 200 \mu\text{m}$;
- cell diameter about $1.0 \mu\text{m}$;
- a sheath was not observed, but might be present;
- attached growth absent;
- septa not clearly visible;
- rectangular cells;
- no sulphur storage, but other (small) granules might be present;
- Gram positive;
- Neisser negative or slightly positive (stained granules).

Physiology

No information available.

Occurrence in activated sludge

Type IF-69 was observed in one WTP receiving wastewater from a food industry. Due to the limited number of observations, it is not possible, however, to draw final conclusions concerning a possible correlation of this morphotype with a specific wastewater.

Control options

Experience with controlling this filamentous morphotype is not available. See Type IF-4 lemma for general 'bulking control rules'.

Slide show images

- 1-2: morphology at a high magnification
- 3: Gram stained